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The linearized boundary value problem for the  
velocity potential for steady or unsteady finite wings  
in a compressible medium is formulated. The  
general equation for the velocity potential is given in  
the form of integrals of source distributions. The  
local source strength, determined in previous inves-  
tigations (for example, in NACA TM-1383), is  
proportional to local downwash, but the region that  
must be covered by sources, as well as the domain of  
integration, must extend over all points of the  
xy-plane from which disturbances can affect the  
potential.

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